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DECLASS REVIEW by NIMA/DOD

17 September 1968
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Ad Hoc Committee for J-3 System Capabilities
Minutes for Meeting #6
Date: 13 September 1968
Location: National Photographic Interpretation Center
Prepared by: [REDACTED]
Attendees: [REDACTED]

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25X1A Review and Approval of Capability Reports #3 and #4 -
[REDACTED]

A brief discussion revealed that suggested changes to the final draft of the SO-230 Evaluation report and to the CR-2 Bi-Color Experiment report were primarily of an editorial nature. Committee members submitted their suggestions to [REDACTED] and the Chairman approved the reports for distribution. In the future, recipients of draft reports will note changes in their copy and return these copies to [REDACTED]. Future reports will be prepared in two classifications; fifty copies as presently prepared and ten copies classified [REDACTED]-Top Secret.

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Preliminary Review of SO-380 Analysis - [REDACTED]

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A comparison of 3404 and SO-380 sensitometry was identical. This was expected since the emulsions are the same. [REDACTED] reported the SO-230 film resolution as 630 lines/mm high contrast and 200 lines/mm at 1.6:1. A last minute cam change on CR-3 resulted in erroneous data being transmitted within the "C" community. The capability report will correct this error. The PET produced PEIR contains the only published data that is correct.

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[REDACTED] reported that a Dr. "A" film flatness test that was run in vacuum on CR-10 had indicated a problem at

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the end of format. Subsequently, a decision was made to return CR-5 to Hivos for a Dr. "A" test with SO-380. This test had been run, but results were not yet available. The "C" Program Director has elected to run CR-6 through [redacted] Dr. "A" with SO-380. Assuming no unforeseen problems, CR-7 will fly SO-205.

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c. The third part of the presentation concerned the evaluation of the J-3 bi-color studies. He discussed the need for distortion removal to allow the production of integrated color prints from the two pan records. He detailed the past problems with orthoprinting and the poor quality obtained from the AS-11C orthoprinter. He discussed the test we set up to compare orthoprinters. Results are now becoming available from this test which clearly indicate that the [] Orthophoto-printer [] is the best for bi-color printing. He showed [] results from tests from Mission 1103 using operational targets. The results were "excellent," showed no color distortions, and no scan lines up to 20X. It was very clear from his briefing that the [] would produce highly acceptable rectified prints for bi-color printing. The major problem remaining to be solved (with J-3 Bi-Color) is to optimize the color printing. He showed some off-color balance prints from Mission 1103. Even though these were off-color balance the major improvement in the bi-color prints versus that which had been produced earlier using the AS-11C was obvious.

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He concluded by stating that NPIC was working on the color printing problem and expected to have it solved shortly. At that time several operational targets from Mission 1103 will be bi-color printed and evaluated for intelligence purposes. At that point NPIC will be able to assess the ultimate intelligence usefulness of bi-color.

In the subsequent discussion, it was pointed out that the reproduction of colors (for example, the yellow discussed in the requirement) was highly dependent on the color printing process. The Committee agreed that several of [] bi-color samples should be sent as soon as possible to AFSPPF for printing on the 3M Electracolor process. [] [] are to coordinate this activity.

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Planning for SO-121 on CR-5

A 500-foot tag on strip of SO-121 Ektachrome color is scheduled for CR-5 on one instrument. A selection of typical targets that were solicited from analysts, including NPIC are being submitted to SOC. Targets that will possibly be covered with SO-121 will be forwarded to ICRS by SOC. A family of []

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considerations, namely, film lengths and film splicing, will be handled as follows:

- a. The SO-380 and SO-121 film thickness differential will result in an estimated 300-500 feet of SO-380 available for mono coverage. Some of this will be absorbed by mono engineering that is being conducted by [] 25X1A
- b. To alleviate an abrupt film change in the system, a fifty-foot section of 3404 will be spliced between the SO-121 to allow a stepped change from UTB to STB with color emulsion. The fifty-foot 3404 section will probably be slightly out of focus because of its thickness. The SO-121 will also be slightly out of focus, but will probably not be noticed because of the resolution of SO-121.

Review of SO-180 - []

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The SO-180 test as a system capability was successful. Selected intelligence targets for the test were not covered, thus, nullifying readout against specific requirements. NPIC is currently in their third phase of analysis. Statements about content at this time would be premature.

Action Items

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[] - A final summary report on the J-3 System Capabilities Studies is required for [] In view of the CR-5 scheduled launch date, the report should be completed by 20 January 1969. [] will commence work on this report immediately and will meet with the Committee in about six to eight weeks.

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[] - Review TWX's to NPIC to determine if requirements for CR-5 are included. If not, TWX will be prepared by []

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